

SAFETY DATA SHEET

Product Trade Name: MC EB-1355

Revision Date: 10-May-2017 Revision Number: 8

1. Identification

1.1. Product Identifier

Product Trade Name: MC EB-1355
Synonyms None
Chemical Family: Blend

Internal ID Code MC000765

1.2 Recommended use and restrictions on useApplication:Emulsion BreakerUses advised againstConsumer use

1.3 Manufacturer's Name and Contact Details

Manufacturer/Supplier Multi-Chem Group LLC

3000 N. Sam Houston Pkwy E., Houston, TX 77032

Phone: 1 281 871 4000

Halliburton Energy Services, Inc. 645 - 7th Ave SW Suite 1800 Calgary, AB T2P 4G8 Canada

Prepared By Chemical Stewardship

Telephone: 1-281-871-6107

e-mail: fdunexchem@halliburton.com

1.4. Emergency telephone number

Emergency Telephone Number: 1-866-519-4752 or 1-760-476-3962

Global Incident Response Access Code: 334305

Contract Number: 14012

2. Hazards Identification

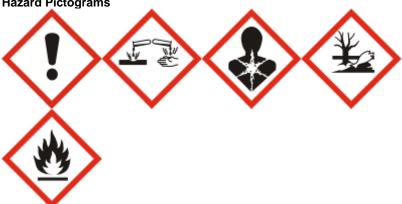
2.1 Classification in accordance with paragraph (d) of §1910.1200

Aspiration Toxicity	Category 1 - H304
Acute Oral Toxicity	Category 4 - H302
Skin Corrosion / Irritation	Category 2 - H315
Serious Eye Damage/Irritation	Category 1 - H318
Germ Cell Mutagenicity	Category 1B - H340
Carcinogenicity	Category 1B - H350
Reproductive Toxicity	Category 1B - H360

Specific Target Organ Toxicity - (Single Exposure)	Category 1 - H370; Category 3 - H336
Acute Aquatic Toxicity	Category 2 - H401
Chronic Aquatic Toxicity	Category 2 - H411
Flammable liquids.	Category 3 - H226

2.2. Label Elements





Signal Word: Danger

Hazard Statements H226 - Flammable liquid and vapor

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H318 - Causes serious eye damage

H336 - May cause drowsiness or dizziness

H340 - May cause genetic defects

H350 - May cause cancer

H360 - May damage fertility or the unborn child

H370 - Causes damage to organs

H401 - Toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

Response

P201 - Obtain special instructions before use Prevention

P202 - Do not handle until all safety precautions have been read and understood

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P233 - Keep container tightly closed

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical/ventilating/lighting/equipment

P242 - Use only non-sparking tools

P243 - Take precautionary measures against static discharge

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

P271 - Use only outdoors or in a well-ventilated area

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or

doctor/physician

P330 - Rinse mouth

P331 - Do NOT induce vomiting

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

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P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower

P362 + P364 - Take off contaminated clothing and wash before reuse

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position

comfortable for breathing

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor/physician

P391 - Collect spillage

P370 + P378 - In case of fire: Use CO2, dry chemical, or foam

Storage P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P403 + P235 - Store in a well-ventilated place. Keep cool

P405 - Store locked up

Disposal P501 - Dispose of contents/container in accordance with

local/regional/national/international regulations

2.3 Hazards not otherwise classified

None known

3. Composition/information on Ingredients

Substances	CAS Number	PERCENT (w/w)	GHS Classification - US
Light aromatic solvent	64742-95-6	30 - 60%	Skin Irrit. 2 (H315) Muta. 1 (H340) Carc. 1B (H350) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 2 (H401) Aquatic Chronic 3 (H412) Flam. Liq. 3 (H226)
Methanol	67-56-1	10 - 30%	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Repr. 1B (H360) STOT SE 1 (H370) Flam. Liq. 2 (H225)
Heavy aromatic petroleum naphtha	64742-94-5	10 - 30%	Asp. Tox. 1 (H304) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)
Isopropanol	67-63-0	5 - 10%	Eye Irrit. 2 (H319) STOT SE 3 (H336) Flam. Liq. 2 (H225)
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	1 - 5%	Skin Irrit. 2 (H315) Eye Corr. 1 (H318) STOT SE 2 (H371) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)
Naphthalene	91-20-3	1 - 5%	Acute Tox. 4 (H302) Carc. 2 (H351) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Sol. 2 (H228)

The exact percentage (concentration) of the composition has been withheld as proprietary.

4. First Aid Measures

4.1. Description of first aid measures

Inhalation If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably

mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention. In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Remove contact lenges ofter the first 5 minutes and continue weeking.

minutes. Remove contact lenses after the first 5 minutes and continue washing. Seek immediate medical attention/advice. Suitable emergency eye wash facility

should be immediately available

Skin In case of contact, immediately flush skin with plenty of soap and water for at least

15 minutes. Get medical attention.

Ingestion Following ingestion, onset of symptoms may be delayed by 12 to 24 hours.

Admission to hospital should be the first priority even if symptoms are absent. Do

NOT induce vomiting. Rinse mouth. Never give anything by mouth to an

unconscious person. Obtain immediate medical attention.

4.2 Most important symptoms/effects, acute and delayed

Harmful if swallowed. Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal. Causes skin irritation. Causes severe eye irritation which may damage tissue. May cause heritable genetic damage. Carcinogen. Potential reproductive hazard. May cause birth defects. May cause damage to internal organs. May cause headache, dizziness, and other central nervous system effects.

4.3. Indication of any immediate medical attention and special treatment needed

Notes to Physician

Eyes

Gastric lavage or emesis should be performed as soon as possible to minimize absorption, and is recommended within 4 hours of ingestion. Ethanol may be given intravenously to prevent build-up of toxic effects of methanol metabolites. Visual disturbances and metabolic acidosis may occur and dialysis, preferably hemodialysis may be employed to treat these complications. Aspiration may cause severe lung damage. Evacuate stomach in a way which avoids aspiration.

5. Fire-fighting measures

5.1. Extinguishing media

Suitable Extinguishing Media

Water fog, carbon dioxide, foam, dry chemical.

Extinguishing media which must not be used for safety reasons

Do NOT spray pool fires directly with water. A solid stream of water directed into hot burning liquid can cause splattering.

5.2 Specific hazards arising from the substance or mixture

Special exposure hazards in a fire

Decomposition in fire may produce harmful gases. Vapors are heavier than air and may accumulate in low areas. Vapors may travel along the ground to be ignited at distant locations.

5.3 Special protective equipment and precautions for fire-fighters

Special protective equipment for firefighters

Full protective clothing and approved self-contained breathing apparatus required for fire fighting personnel.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Use appropriate protective equipment. Do not breathe dust/fume/gas/mist/vapors/spray. Remove sources of ignition. Take precautionary measures against static discharges All equipment used when handling the product must be grounded Avoid contact with skin, eyes and clothing. Use only competent persons for cleanup.

See Section 8 for additional information

6.2. Environmental precautions

Prevent from entering sewers, waterways, or low areas.

6.3. Methods and material for containment and cleaning up

Dike far ahead of liquid spill for later disposal. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Remove ignition sources and work with non-sparking tools.

7. Handling and storage

7.1. Precautions for safe handling

Handling Precautions

Do not breathe dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation. Use appropriate protective equipment. Remove sources of ignition. Ground and bond containers when transferring from one container to another. Avoid contact with eves, skin, or clothing.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Information

Store in a cool well ventilated area. Keep from heat, sparks, and open flames.

8. Exposure Controls/Personal Protection

8.1 Occupational Exposure Limits

Substances	CAS Number	OSHA PEL-TWA	ACGIH TLV-TWA
Light aromatic solvent	64742-95-6	Not applicable	Not applicable
Methanol	67-56-1	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm STEL: 250 ppm
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable	Not applicable
Isopropanol	67-63-0	TWA: 400 ppm TWA: 980 mg/m ³	TWA: 200 ppm STEL: 400 ppm
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-h ydroxy-, branched	127087-87-0	Not applicable	Not applicable
Naphthalene	91-20-3	TWA: 10 ppm TWA: 50 mg/m ³	TWA: 10 ppm

8.2 Appropriate engineering controls

Engineering Controls

Ensure adequate ventilation, especially in confined areas Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

8.3 Individual protection measures, such as personal protective equipment

Personal Protective Equipment If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection

If engineering controls and work practices cannot keep exposure below occupational exposure limits or if exposure is unknown, wear a NIOSH certified, European Standard EN 149, AS/NZS 1715:2009, or equivalent respirator when using this product. Selection of and instruction on using all personal protective equipment, including respirators, should be performed by an Industrial Hygienist or other qualified professional.

Hand Protection

Use gloves which are suitable for the chemicals present in this product as well as

other environmental factors in the workplace.

Skin Protection Wear protective clothing appropriate for the work environment. Wear impervious

protective clothing, including boots, gloves, lab coat, apron, rain jacket, pants or

coverall, as appropriate, to prevent skin contact.

Eye Protection Safety glasses with side-shields. If splashes are likely to occur, wear: Goggles,

Face-shield.

Other Precautions Eyewash fountains and safety showers must be easily accessible.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid Color Clear to Slightly Hazy, Light Amber to

Dark Amber

Odor: Aromatic hydrocarbon Odor No information available

Threshold:

<u>Property</u> <u>Values</u>

Remarks/ - Method **pH:**5-9 (10% in 1:1 IPA:H2O)

Freezing Point / Range
-40 °C / -40 °F
Melting Point / Range
No data available
Boiling Point / Range
No data available

Flash Point 26.7 °C / 80 °F (SFCC)

Flammability (solid, gas)
Upper flammability limit
Lower flammability limit
No data available
No data available
No data available
Vapor Pressure
No data available
Vapor Density
No data available

Specific Gravity 0.8865-0.9115 (20 °C/68 °F)

Water Solubility No data available Solubility in other solvents No data available Partition coefficient: n-octanol/water No data available **Autoignition Temperature** No data available **Decomposition Temperature** No data available **Viscosity** No data available **Explosive Properties** No information available **Oxidizing Properties** No information available

9.2. Other information

VOC Content (%)

Liquid Density

No data available 7.39-7.60 lbs/gal

10. Stability and Reactivity

10.1. Reactivity

Not expected to be reactive.

10.2. Chemical stability

Stable

10.3. Possibility of hazardous reactions

Will Not Occur

10.4. Conditions to avoid

Keep away from heat, sparks and flame.

10.5. Incompatible materials

Strong oxidizers. Strong acids. Strong alkalis.

10.6. Hazardous decomposition products

Carbon oxides. Oxides of nitrogen. Fumes of aromatic hydrocarbons.

11. Toxicological Information

11.1 Information on likely routes of exposure

Principle Route of Exposure Inhalation. Ingestion. Skin contact. Eye contact.

11.2 Symptoms related to the physical, chemical and toxicological characteristics

Acute Toxicity

Inhalation May cause central nervous system depression including headache, dizziness,

drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and

unconsciousness.

Eye Contact Causes serious eye damage.

Skin Contact Causes skin irritation.

Ingestion Ingestion of this product may cause blindness due to the presence of methanol.

Harmful if swallowed. May be fatal if swallowed and enters airways.

Chronic Effects/Carcinogenicity May cause heritable genetic damage. Contains known or suspected carcinogens.

May cause birth defects. Contains known or suspected reproductive toxins.

11.3 Toxicity data

Toxicology data for the components

Substances	CAS Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
Light aromatic solvent 64742-95-6		8400 mg/kg (Rat) >5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	5.2 mg/L (Rat) 4h 3400 ppm (Rat) 4h >8.53 mg/L (Rat) 4h
Methanol	67-56-1	300 mg/kg-bw (human) < 790 to 13,000 mg/kg (rat)	1000 mg/kg-bw (human) 17,100 mg/kg (rabbit)	10 mg/L (human, vapor, 4h)
Heavy aromatic petroleum naphtha	64742-94-5	>5000 mg/kg-bw (rat)	>2000 mg/kg-bw (rabbit)	> 4.778 mg/L (rat, 4 h, vapour, saturated)
Isopropanol	67-63-0	5840 mg/kg-bw (rat)	12870 mg/kg-bw (rabbit)	72.6 mg/L (Rat, 4h, vapor)
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-om ega-hydroxy-, branched	127087-87-0	2000 - 5000 mg/kg (Rat) (Similar substance)	> 2000 mg/kg (Rabbit) (similar substance)	No data available
Naphthalene	91-20-3	490 mg/kg (Rat) 1110 mg/kg (Rat)	1120 mg/kg (Rabbit)20 g/kg(Rabbit)	340 mg/m³ (Rat)1 h

Substances	CAS Number	Skin corrosion/irritation
Light aromatic solvent	64742-95-6	Causes moderate skin irritation. (Rabbit)
Methanol	67-56-1	Non-irritating to the skin (Rabbit)
Heavy aromatic petroleum naphtha	64742-94-5	Non-irritating to the skin (Rabbit) (similar substances)
Isopropanol	67-63-0	Non-irritating to the skin (Rabbit)
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched		Causes moderate skin irritation. (Rabbit)
Naphthalene	91-20-3	Non-irritating to the skin (Rabbit)

Substances	CAS Number	Serious eye damage/irritation
Light aromatic solvent	64742-95-6	Non-irritating to rabbit's eye
Methanol	67-56-1	Non-irritating to the eye (Rabbit)
Heavy aromatic petroleum naphtha	64742-94-5	Non-irritating to rabbit's eye (similar substances)
Isopropanol	67-63-0	Causes moderate eye irritation (Rabbit)
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched		Causes severe eye irritation which may damage tissue. (Rabbit)

Naphthalene		La contraction of the contractio
	91-20-3	May cause mechanical irritation to eye. (human) Non-irritating to rabbit's eye
Substances	CAS Number	Skin Sensitization
Light aromatic solvent Methanol		Did not cause sensitization on laboratory animals (guinea pig)
		Did not cause sensitization on laboratory animals (guinea pig) Patch test on human volunteers did not demonstrate sensitization properties (guinea pig) Did not
naphtha	04/42-94-5	cause sensitization on laboratory animals (similar substances)
Isopropanol	67-63-0	Did not cause sensitization on laboratory animals (guinea pig)
Poly(oxy-1,2-ethanediyl),		Patch test on human volunteers did not demonstrate sensitization properties
alpha-(4-nonylphenyl)-omeg	12/00/ 0/ 0	a don tool on numan voluntoors did not domonatate sonsitization properties
a-hydroxy-, branched		
Naphthalene	91-20-3	Did not cause sensitization on laboratory animals (guinea pig)
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Substances	CAS Number	Respiratory Sensitization
Light aromatic solvent	64742-95-6	No information available
Methanol	67-56-1	No information available
Heavy aromatic petroleum	64742-94-5	No information available
naphtha		
Isopropanol	67-63-0	No information available
Poly(oxy-1,2-ethanediyl),	127087-87-0	No information available
alpha-(4-nonylphenyl)-omeg		
a-hydroxy-, branched Naphthalene	91-20-3	No information available
Inaprilialene	191-20-3	וווטוווומווטוו מעמוומטופ
Substances	CAS Number	Mutagania Effects
Light aromatic solvent		Mutagenic Effects Some in vive tests have shown mutagenic effects. In vitro tests have shown mutagenic effects.
Methanol		Some in vivo tests have shown mutagenic effects. In vitro tests have shown mutagenic effects The weight of evidence from available in vitro and in vivo studies indicates that this substance is not
Ivietrianoi		expected to be mutagenic.
Heavy aromatic petroleum		In vitro tests did not show mutagenic effects In vivo tests did not show mutagenic effects. (similar
naphtha		substances)
Isopropanol		In vitro tests did not show mutagenic effects. In vivo tests did not show mutagenic effects.
Poly(oxy-1,2-ethanediyl),		In vitro tests did not show mutagenic effects (similar substances)
alpha-(4-nonylphenyl)-omeg	12.00.0	(
a-hydroxy-, branched		
Naphthalene	91-20-3	In vitro tests did not show mutagenic effects.
Substances		Carcinogenic Effects
Light aromatic solvent		Contains a known or suspected carcinogen
Methanol		No data of sufficient quality are available.
Hanvy aromatic natural acces		
Heavy aromatic petroleum	64742-94-5	Did not show carcinogenic effects in animal experiments (similar substances) Not regarded as
naphtha		carcinogenic.
naphtha Isopropanol	67-63-0	carcinogenic. Did not show carcinogenic effects in animal experiments
naphtha Isopropanol Poly(oxy-1,2-ethanediyl),	67-63-0	carcinogenic.
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naphtha Isopropanol Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched Naphthalene	67-63-0 127087-87-0 91-20-3	carcinogenic. Did not show carcinogenic effects in animal experiments Did not show carcinogenic or teratogenic effects in animal experiments (similar substances) Substances which should be regarded as if they are carcinogenic to man
naphtha Isopropanol Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched Naphthalene Substances	67-63-0 127087-87-0 91-20-3	carcinogenic. Did not show carcinogenic effects in animal experiments Did not show carcinogenic or teratogenic effects in animal experiments (similar substances) Substances which should be regarded as if they are carcinogenic to man Reproductive toxicity
naphtha Isopropanol Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched Naphthalene Substances Light aromatic solvent	67-63-0 127087-87-0 91-20-3 CAS Number 64742-95-6	carcinogenic. Did not show carcinogenic effects in animal experiments Did not show carcinogenic or teratogenic effects in animal experiments (similar substances) Substances which should be regarded as if they are carcinogenic to man Reproductive toxicity No data of sufficient quality are available.
naphtha Isopropanol Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched Naphthalene Substances Light aromatic solvent Methanol	67-63-0 127087-87-0 91-20-3 CAS Number 64742-95-6 67-56-1	carcinogenic. Did not show carcinogenic effects in animal experiments Did not show carcinogenic or teratogenic effects in animal experiments (similar substances) Substances which should be regarded as if they are carcinogenic to man Reproductive toxicity No data of sufficient quality are available. Experiments have shown reproductive toxicity effects on laboratory animals
naphtha Isopropanol Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched Naphthalene Substances Light aromatic solvent Methanol Heavy aromatic petroleum	67-63-0 127087-87-0 91-20-3 CAS Number 64742-95-6 67-56-1	carcinogenic. Did not show carcinogenic effects in animal experiments Did not show carcinogenic or teratogenic effects in animal experiments (similar substances) Substances which should be regarded as if they are carcinogenic to man Reproductive toxicity No data of sufficient quality are available. Experiments have shown reproductive toxicity effects on laboratory animals Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal
naphtha Isopropanol Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched Naphthalene Substances Light aromatic solvent Methanol Heavy aromatic petroleum naphtha	67-63-0 127087-87-0 91-20-3 CAS Number 64742-95-6 67-56-1 64742-94-5	carcinogenic. Did not show carcinogenic effects in animal experiments Did not show carcinogenic or teratogenic effects in animal experiments (similar substances) Substances which should be regarded as if they are carcinogenic to man Reproductive toxicity No data of sufficient quality are available. Experiments have shown reproductive toxicity effects on laboratory animals Animal testing did not show any effects on fertility. Did not show teratogenic effects in animal experiments. (similar substances)
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alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched		
Naphthalene	91-20-3	No data of sufficient quality are available.

Substances	CAS Number	STOT - repeated exposure
Light aromatic solvent		No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Methanol	67-56-1	No data of sufficient quality are available.
Heavy aromatic petroleum naphtha	64742-94-5	No significant toxicity observed in animal studies at concentration requiring classification.
Isopropanol		No significant toxicity observed in animal studies at concentration requiring classification. (similar substances)
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched		No significant toxicity observed in animal studies at concentration requiring classification.
Naphthalene	91-20-3	No significant toxicity observed in animal studies at concentration requiring classification.

Substances	CAS Number	Aspiration hazard
Light aromatic solvent	64742-95-6	May be fatal if swallowed and enters airways
Methanol	67-56-1	Not applicable
Heavy aromatic petroleum naphtha		Aspiration into the lungs may cause chemical pneumonitis including coughing, difficulty breathing, wheezing, coughing up blood and pneumonia, which can be fatal.
Isopropanol	67-63-0	Not applicable
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omeg a-hydroxy-, branched		Not applicable
Naphthalene	91-20-3	No information available

12. Ecological Information

12.1. Toxicity
Ecotoxicity effects
Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Substance Ecotoxicity Data

Substances	CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Toxicity to Invertebrates
Light aromatic solvent	64742-95-6	EL50 (72h) 3.1 mg/L (Pseudokirchnerella subcapitata)	LC50 (96h) 1.03 mg/L (Oncorhynchus mykiss)	No information available	EC50 (48h) 1.2 mg/L (Daphnia magna)
Methanol	67-56-1	EC50 (96 h) =22000 mg/L (Pseudokirchnerella subcapitata) NOEC (8 d) =8000 mg/L (Scenedesmus quadricauda)	LC50 (96 h) =15400 mg/L (Lepomis macrochirus) EC50 (200 h) =14536 mg/L (Oryzias latipes)	IC50 (3h) > 1000 mg/L (activated sludge)	EC50 (96 h) =18260 mg/L (Dapnia magna) NOEC (21 d) =208 mg/L (Dapnia magna)
Heavy aromatic petroleum naphtha	64742-94-5	EC50 (72h) 7.8 mg/L (Pseudokirchneriella subcapitata)	LL50 (96 h) =3.6 mg/L (Orcorhynchus mykiss) LC50 (96 h) =357.7 mg/L (Scophthalmus maximus)	No information available	EL50 (48h) 1.1 mg/L (Daphnia magna) (similar substance)
Isopropanol	67-63-0	EC50 (72h) > 1000 mg/L (Desmodesmus subspicatus) EC50 (7d) 1800 mg/L (Scenedesmus quadricauda)	LC50 (96h) 9640 mg/L (Pimephales promelas) LC50 (7d) 7060 mg/L (Poecilia reticulata)	TT (16h) 1050 mg/L (Pseudomonas putida)	EC50 (48h) 13,299 mg/L (Daphnia magna) EC50 (24h) > 10,000 mg/L (Daphnia magna)
Poly(oxy-1,2-ethanediy l), alpha-(4-nonylphenyl)- omega-hydroxy-, branched	127087-87-0	EC50 (72h) > 3 mg/L (Pseudokirchnerella subcapitata) (similar substance)	LC50 (96h) 0.323 mg/L (Pimephales promelas) (similar substance)	EC50 (3h) 104 mg/L (Activated sludge) (similar substance)	EC50 (48h) 0.148 mg/L (Daphnia magna) (similar substance) NOEC (21d) 0.006 mg/L (Daphnia magna) (similar substance) NOEC (21d) 0.1 mg/L (Daphnia magna) (similar substance)
Naphthalene	91-20-3	EC50 (72 h) =0.4 mg/L (Skeletonema costatum)	LC50 (96 h) =1.6 mg/L (Oncorhynchus mykiss)	IC50 (24 h) =29 mg/L (Nitrosomonas sp.)	EC50 (48 h) =2.16 mg/L (Daphnia magna)

NOAEC (40 d) =0.37	NOAEC (125 d) =0.9	59
mg/L (Oncorhynchus	mg/L (Daphnia pule	ex)
kisutch)		

12.2. Persistence and degradability

Substances	CAS Number	Persistence and Degradability
Light aromatic solvent	64742-95-6	(77.05% @ 28d)
Methanol	67-56-1	(95-97% @ 20d)
Heavy aromatic petroleum naphtha	64742-94-5	Readily biodegradable (58% @ 28d)
Isopropanol	67-63-0	No information available
Poly(oxy-1,2-ethanediyl),	127087-87-0	(58.7% @ 28d) (similar substances)
alpha-(4-nonylphenyl)-omega-hydroxy-, branched		
Naphthalene	91-20-3	Readily biodegradable (100% @ 7d)

12.3. Bioaccumulative potential

Substances	CAS Number	Log Pow
Light aromatic solvent	64742-95-6	3.20 - 3.63 BCF = 119 - 142
Methanol	67-56-1	-0.77 BCF = 1.0 – 4.5 (Cyprinus carpio) BCF < 10 (Leuciscus idus melanotus)
Heavy aromatic petroleum naphtha	64742-94-5	LogPow 5.2
Isopropanol	67-63-0	No information available
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	2.1-3.4
Naphthalene	91-20-3	LogPow 3.3

12.4. Mobility in soil

Substances	CAS Number	Mobility
Light aromatic solvent	64742-95-6	KOC = 372 - 617
Methanol	67-56-1	No information available
Heavy aromatic petroleum naphtha	64742-94-5	No information available
Isopropanol	67-63-0	No information available
Poly(oxy-1,2-ethanediyl),	127087-87-0	No information available
alpha-(4-nonylphenyl)-omega-hydroxy-, branched		
Naphthalene	91-20-3	No information available

12.5 Other adverse effects

No information available

13. Disposal Considerations

13.1. Waste treatment methods

Disposal methodsDisposal should be made in accordance with federal, state, and local regulations.
Contaminated Packaging
Follow all applicable national or local regulations.

14. Transport Information

US DOT

UN Number UN1993

UN proper shipping name: Flammable Liquid, N.O.S. (Contains Methanol, Light aromatic solvent)

Transport Hazard Class(es): 3
Packing Group: ||||

Environmental Hazards: Marine Pollutant NAERG: NAERG 128

Canadian TDG

UN Number UN1993

UN proper shipping name: Flammable Liquid, N.O.S. (Contains Methanol, Light aromatic solvent)

Transport Hazard Class(es): 3
Packing Group: |||

Environmental Hazards: Marine Pollutant

IMDG/IMO

UN Number UN1993

UN proper shipping name: Flammable Liquid, N.O.S. (Contains Methanol, Light aromatic solvent)

Transport Hazard Class(es): 3
Packing Group: |||

Environmental Hazards: Marine Pollutant EMS: EmS F-E, S-E

IATA/ICAO

UN Number UN1993

UN proper shipping name: Flammable Liquid, N.O.S. (Contains Methanol, Light aromatic solvent)

Transport Hazard Class(es): 3
Packing Group: ||||

Environmental Hazards: Marine Pollutant

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable

Special Precautions for User None

15. Regulatory Information

US Regulations

US TSCA Inventory All components listed on inventory or are exempt.

TSCA Significant New Use Rules - S5A2

Substances	CAS Number	TSCA Significant New Use Rules - S5A2
Light aromatic solvent	64742-95-6	Not applicable
Methanol	67-56-1	Not applicable
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable
Isopropanol	67-63-0	Not applicable
Poly(oxy-1,2-ethanediyl),	127087-87-0	Not applicable
alpha-(4-nonylphenyl)-omega-hydroxy-, branched		
Naphthalene	91-20-3	Not applicable

EPA SARA Title III Extremely Hazardous Substances

Substances	CAS Number	EPA SARA Title III Extremely Hazardous
		Substances
Light aromatic solvent	64742-95-6	Not applicable
Methanol	67-56-1	Not applicable
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable
Isopropanol	67-63-0	Not applicable
Poly(oxy-1,2-ethanediyl),	127087-87-0	Not applicable
alpha-(4-nonylphenyl)-omega-hydroxy-, branched		
Naphthalene	91-20-3	Not applicable

EPA SARA (311,312) Hazard Class

Acute Health Hazard Chronic Health Hazard

Fire Hazard

EPA SARA (313) Chemicals

	Substances	CAS Number	Toxic Release Inventory (TRI) -	Toxic Release Inventory (TRI) -
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		Group I	Group II
Light aromatic solvent	64742-95-6	Not applicable	Not applicable
Methanol	67-56-1	1.0%	Not applicable
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable	Not applicable
Isopropanol	67-63-0	1.0%	Not applicable
Poly(oxy-1,2-ethanediyl),	127087-87-0	Not applicable	Not applicable
alpha-(4-nonylphenyl)-omega-hydroxy-,			
branched			
Naphthalene	91-20-3	0.1%	Not applicable

EPA CERCLA/Superfund Reportable Spill Quantity

Substances	CAS Number	CERCLA RQ
Light aromatic solvent	64742-95-6	Not applicable
Methanol	67-56-1	5000 lb 2270 kg
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable
Isopropanol	67-63-0	Not applicable
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydroxy-, branched	127087-87-0	Not applicable
Naphthalene	91-20-3	100 lb 45.4 kg 1 lb 0.454 ka

EPA RCRA Hazardous Waste Classification

Ignitability D001

California Proposition 65

Substances	CAS Number	California Proposition 65
Light aromatic solvent	64742-95-6	Not applicable
Methanol	67-56-1	developmental toxicity
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable
Isopropanol	67-63-0	Not applicable
Poly(oxy-1,2-ethanediyl),	127087-87-0	Not applicable
alpha-(4-nonylphenyl)-omega-hydroxy-, branched		
Naphthalene	91-20-3	carcinogen

U.S. State Right-to-Know Regulations

Substances	CAS Number	MA Right-to-Know Law	NJ Right-to-Know Law	PA Right-to-Know Law
Light aromatic solvent	64742-95-6	Not applicable	Not applicable	Not applicable
Methanol	67-56-1	Present	1222	Environmental hazard
Heavy aromatic petroleum naphtha	64742-94-5	Not applicable	Not applicable	Not applicable
Isopropanol	67-63-0	Present	1076	Environmental hazard
Poly(oxy-1,2-ethanediyl), alpha-(4-nonylphenyl)-omega-hydro xy-, branched		Not applicable	Not applicable	Not applicable
Naphthalene	91-20-3	Present	1322	Environmental hazard

NFPA Ratings: Health 3, Flammability 3, Reactivity 0

HMIS Ratings: Health 3*, Flammability 3, Physical Hazard 0, PPE: X

Canadian Regulations

Canadian Domestic Substances All components listed on inventory or are exempt. **List (DSL)**

16. Other information

Preparation Information

Prepared By Chemical Stewardship

Telephone: 1-281-871-6107

e-mail: fdunexchem@halliburton.com

Revision Date: 10-May-2017

Reason for Revision Update to Format

Additional information

For additional information on the use of this product, contact your local Halliburton representative.

For questions about the Safety Data Sheet for this or other Halliburton products, contact Chemical Stewardship at 1-580-251-4335.

Key or legend to abbreviations and acronyms used in the safety data sheet

bw - body weight

CAS - Chemical Abstracts Service

d - day

EC50 - Effective Concentration 50%

ErC50 – Effective Concentration growth rate 50%

h - hour

LC50 - Lethal Concentration 50%

LD50 - Lethal Dose 50%

LL50 – Lethal Loading 50%

mg/kg - milligram/kilogram

mg/L - milligram/liter

mg/m³ - milligram/cubic meter

mm - millimeter

mmHg - millimeter mercury

NIOSH - National Institute for Occupational Safety and Health

NTP - National Toxicology Program

OEL - Occupational Exposure Limit

PEL – Permissible Exposure Limit

ppm – parts per million

STEL - Short Term Exposure Limit

TWA - Time-Weighted Average

UN - United Nations

w/w - weight/weight

Key literature references and sources for data

OSHA

ECHA C&L

www.ChemADVISOR.com/

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End of Safety Data Sheet